## Amend the claims as follows:

335-

- 1. (Original) An apparatus combinising a base, the base comprising a circular display of first markings divided into 153 equitagular parts disposed along substantially the entire periphery of the circular display, the 153 equitangular parts grouped into five segments, the first segment having 31 equiangular parts, the second segment having 30 equiangular parts and being labeled "April" and "September", the triad segment having 31 equiangular parts and being labeled "May" and "October", the four hasegment having 30 equiangular parts and being labeled "June" and "November", and the fifth segment having 31 equiangular parts and being labeled "July" and "December", respectively, in clockwise fashion around the circular display.
- 2. (Original) The apparatus of daim 1, wherein the first segment is labeled "March" and "August".
- 3. (Original) The apparatus of Laim 1, wherein the first segment is labeled "August" and "January".
- 4. (Original) The apparatus of Jaim 1, wherein the first segment is labeled "March", "August" and "January".
- 5. (Original) The apparatus of traim 1, wherein the second segment is labeled "February", "September" and "April".
- 6. (Original) The apparatus of taim 1, wherein the base is substantially planar and opaque.
- 7. (Original) The apparatus of thaim 1, further comprising one or more discs rotatably joined at a central axis to the circular display portion of the base, wherein the discs have a circular display of markings disposed along articast a section of the periphery thereof, the markings representing

activities or events of interest.

- 8. (Original) The apparatus of claim 7, turthe comprising an additional disc having at least a circular display of markings disposed along a east a portion of the periphery thereof, the markings being divided into equiangular parts abeled with the days of the week.
- 9. (Original) The apparatus of claim 7, where the events of interest are related to a series of medical treatments.
- 10. (Original) The apparatus of claim 7, where n the events of interest are related to banking, law, construction or insurance.
- to the circular display on the base, the first dis having at least a circular display of second markings disposed along at least a portion of the periphery thereof, the second markings markings disposed along at least a portion of the periphery thereof, the third markings disc is aligned with the base such that the day of a menstrual cycle are aligned with the day.
- 11. (Original) The apparatus of claim 1, adapt d to determine physiologic phases and optimum time for fertility tests, treatments, and protocc s based on menstrual or ovulation physiology, the apparatus further comprising first and second iscs adapted to be rotatably joined at a central axis representing the days of a menstrual cycle, wherein one or more cycles are represented, the cycles having the same or different lengths; the seco i disc having at least a circular display of third representing events of interest relating to one r more menstrual cycles; wherein in use, the first appropriate calendar day on the base and the second disc is aligned with the first disc such that events of interest relating to one or more men rual cycles are aligned with the appropriate cycle
- 12. (Original) The apparatus of claim 11, further comprising a third disc having at least a circular
- display of fourth markings disposed along at 1 ast a portion of the periphery thereof, the fourth markings being divided into equiangular parts abeled with the days of the week.

- 3. (Original) The apparatus of claim 12, further comprising a reversible locking means for securing the first, second and third discs to the base, the locking means preventing the discs from totating once they are aligned.
- 14. (Original) The apparatus of claim 11, wherein the first disc further comprises fifth markings lisposed in a circular display, the fifth markings representing initial steps in one or more physiologic phase or fertility test, treatment or protocol, the physiologic phase or fertility test, reatment or protocol having initial and final steps.
- 15. (Original) The apparatus of claim 14, wherein the second disc further comprises sixth markings disposed in a circular display, the sixth markings depresenting the final steps in the physiologic phase, test, treatment or protocol from the first disc.
- 16. (Original) The apparatus of claim 15, wherein the initial and final steps of a single phase, test, treatment or protocol on the first and second discs are the same color, and each phase, test, treatment and protocol is a different color.
- 17. (Original) The apparatus of claim 11, further comprising a mask which covers the unused portions of the calculator once a calculation is made, the mask comprising an opaque disc with a section cut out, the mask being the same size as the circular display on the base, and adapted to be rotatably set in coaxial relation with the base and first and second discs.
- 18. (Original) The apparatus of claim 17, wherein the mask-comprises two sections which overlap to create an opening of variable size.
- 19. (Original) The apparatus of claim 11, further comprising an indicator arm for indicating the possibility of pregnancy, the indicator arm comprising a transparent arm extending from the center of the calculator to at least the outer edge of the second disc, the arm adapted to be rotatably set in coaxial relation therewith, the arm having a first marker representing intercourse.

and a second marker representing the chance of sperm, wherein the secon marker extends from the first marker out to a distance of up to six units, representing up to six mays, including the day indicated by first marker; wherein in use the start of the last mension eriod on the first disc is aligned with the appropriate calendar day on the base, and the indicaton time is positioned such that the first marker is aligned with the day of the month of intercourse, and the possibility of pregnancy is determined by the overlap of the second marker with a chance of egg marker on the first disc, who can overlap indicates a possibility of pregnancy.

20. (Original) The apparatus of claim 14, wherein the first and second dis s comprise a matched set, and are exchangeable with other disc sets containing steps for different fertility tests, treatments, protocols and physiologic phases.

21. (Original) The apparatus of claim 11, wherein the fertility tests; treatments, protocols and physiologic plus is are selected from the group consisting of last menstru | period, current menstrual per od, next menstrual period, follicular phase, luteal phase, es rogen levels, progesterone evels, lutenizing hormone blood levels, follicular stimulating hormone blood levels, lutenizing hormone surge, follicular recruitment, follicular domina ace, follicle growth, ovulation, lute o genesis, luteolysis, fertilization of oocyte, non-fertile time, fertile times, maybe fertile times, embryo development, zygote, morula, blastocyst, hatching, emplantation, embryo, fetus, blood pregnancy test, urine pregnancy test, early pregnancy ultrasor ad, embryonic plate, fetal heart motion, limb budding, timed intercourse, start basal body temperature chart, basal body tempera ure shift, cervical mucus, probable ovulation, average cycle length, no intercourse, start urine lutenizing hormone tests, urine lutenizing hormone positive te lutenizing hormone and follicular stimulating hormone tests, post coital test, semen analysis, and-luteal progesterone level, hystero alpingogram x-ray, endometrial biopsy, Clomiphene, ovari in follicle ultrasound, intra-uterine insemination, intra-cervical insemination, start progesterone suppositories, expected next menstruct period, gestational ultrasound, human chorionic gonadotrepen trigger injection, Clomid cheel e cam, ultrasound, ultrasound scale, dexamethasone, hMG in ection, Lupron, human follicular stimulating hormone injection, obstetrics visit, step-up lanan follicular

stimulating hormor s, estrogen tests, drift days, prior cycle BCPs, prior cycle Labron, egg capture, in vitro fertilization, embryo transfer, frozen embryo transfer, progeste one injections, estrogen tests with attrasound, low-dose Lupron, high-dose human follicular and that hormone injection, 3.1.F.T. laparoscopy, estrogen pill/patch, and thaw embryo

- 22. (Original) The apparatus of claim 11, wherein the menstrual cycle represented is that of a human.
- 23. (Original) The apparatus of claim 11, wherein the menstrual cycle represented is that of a non-human animal
- 24. (Original) The apparatus of claim 23, wherein the non-human animal is selected from the group consisting of cattle, horses, pigs, sheep, dogs, rats, mice and monkeys.
- 25. (Original) The apparatus of claim 23, wherein the non-human animal is a 2 p animal.
- 26. (Original) The pparatus of claim 11, wherein the base and first disc are or sque and the second disc is subs antially transparent.
- 27. (Original) An apparatus comprising a base, the base comprising a circular esplay of first markings divided into at least 150 equiangular parts disposed along substantially the entire periphery of the circular display, the at least 150 equiangular parts grouped into at least five segments, the first segment having 31 equiangular parts and being labeled "January", the second segment having 28 equiangular parts and being labeled "February", the fourth segment having 31 equiangular parts and being labeled "Leap February", and the fifth segment having 31 equiangular parts and being labeled "Leap March", or the first segment having 31 equiangular parts and being labeled "Leap January", the second segment having 29 equiangular parts and being labeled "Leap January", the second segment having 29 equiangular parts and being labeled "Leap January", the third segment having 31 equiangular parts and being labeled "Leap March" and "January", the fourth segment having 28 equiangular parts and being labeled "Leap March" and "January", the fourth segment having 28 equiangular parts and being labeled "Leap March" and "January", the fourth segment having 28 equiangular parts and being labeled

"February", and the fifth segment aving 31 equiangular parts and being labeled "March", respectively, in clockwise fashic account the circle.

- 28. (Original) The apparatus of the m 27, wherein the circular display of markings is divided into 153 equiangular parts grouped in the six segments, wherein a sixth segment comprising three equiangular parts is located between the first and fifth segment.
- 29. (Original) The apparatus of cie m 27, wherein the base is substantially planar and opaqu
- 30. (Original) The apparatus of  $\frac{1}{16}$  m 27, further comprising one or more discs rotatably join  $\frac{1}{16}$  d at a central axis to the circular dis  $\frac{1}{16}$  a portion of the base, wherein the discs have a circular dis  $\frac{1}{16}$  lay of markings disposed along at  $\frac{1}{16}$  is a section of the periphery thereof, the markings representing activities or events of interest.
- 31. (Original) The apparatus of the m 30, further comprising an additional disc having at least a circular display of markings dist o ed along at least a portion of the periphery thereof, the markings being divided into equal gular parts labeled with the days of the week.
- 32. (Original) The apparatus of 1e m 30, wherein the events of interest are related to a serie of medical treatments.
- 33. (Original) The apparatus of 10 m 30, wherein the events of interest are related to bankin, law, construction or insurance.
- 34. (Original) The apparatus of the m 26, adapted to determine physiologic phases and optimatime for fertility tests, treatment and protocols based on menstrual or ovulation physiology. The apparatus further comprising fire and second discs adapted to be rotatably joined at a central axis to the circular display on the base. The first disc having at least a circular display of second markings disposed along at least a cortion of the periphery thereof, the second markings

representing the days of a menstrual cycle, wherein one or more cycles are represented, the cycles having the same or different lengths; the second disc having at least a circular display of third markings disposed along at least a portion of the periphery thereof, the third markings representing events of interest relating to one remore menstrual cycles.

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- 35. (Original) The apparatus of claim 34, further comprising a third disc having at least a circular display of fourth markings disposed along at I ast a portion of the periphery thereof, the fourth markings being divided into equiangular parts labeled with the days of the week.
- 36. (Original) The apparatus of claim 35, furtler comprising a reversible locking means for securing the first, second and third discs to the base, the locking means preventing the discs from rotating once they are aligned.
- 37. (Original) The apparatus of claim 34, whe ein the first disc further comprises fifth markings disposed in a circular display, the fifth markir is representing initial steps in one or more physiologic phase or fertility test, treatment or protocol, the physiologic phase or fertility test, treatment or protocol having initial and final e eps.
- 38. (Original) The apparatus of claim 37, whe ein the second disc further comprises sixth markings disposed in a circular display, the sight markings representing the final steps in the physiologic phase, test, treatment or protocol rom the first disc.
- 39. (Original) The apparatus of claim 38, whe ein the initial and final steps of a single phase, test, treatment or protocol on the first and second c ses are the same color, and each phase, test, treatment and protocol is a different color.
- 40. (Original) The apparatus of claim 34, further comprising a mask which covers the unused portions of the calculator once a calculation is made, the mask comprising an opaque disc with a section cut out, the mask being the same size s the circular display on the base, and adapted to

e rotatably set in coaxial relation with the base and first a

41. (Original) The apparatus of claim 40, wherein the mask imprises two sections which verlap to create an opening of variable size.

-2. (Original) The apparatus of claim 34, further comprising an indicator arm for indicating the possibility of pregnancy, the indicator arm comprising a transparent arm extending from the enter of the calculator to at least the outer edge of the seceed disc, the arm adapted to be otatably set in coaxial relation therewith, the arm having a limit marker representing intercourse, and a second marker representing the chance of sperm, who can the second marker extends from he first marker out to a distance of up to six units, representing up to six days, including the day ndicated by the first marker; wherein in use the start of the at menstrual period on the first disc s aligned with the appropriate calendar day on the base, are the indicator arm is positioned such hat the first marker is aligned with the day of the month of n ercourse, and the possibility of regnancy is determined by the overlap of the second mark with a chance of egg marker on the irst disc, wherein overlap indicates a possibility of pregna \(\cdot\)

13. (Original) The apparatus of claim 38, wherein the first are second discs comprise a matched et, and are exchangeable with other disc sets containing stor for different fertility tests, reatments, protocols and physiologic phases.

14. (Original) The apparatus of claim 34, wherein the fertily tests, treatments, protocols and physiologic phases are selected from the group consisting a last menstrual period, current nenstrual period, next menstrual period, follicular phase, lead phase, estrogen levels, progesterone levels, lutenizing hormone blood levels, folli of r stimulating hormone blood evels, lutenizing hormone surge, follicular recruitment, fo cular dominance, follicle growth, evulation, luteogenesis, luteolysis, fertilization of oocyte, and fertile times, fertile times, maybe ertile times, embryo development, zygote, morula, blastoc schatching, implantation, embryo, etus, blood pregnancy test, urine pregnancy test, early pre carly ultrasound, embryonic plate,

be elementation, limb budding, timed intercourse, start bas. It pody temperature chart, basal be ely temperature shift, cervical mucus, probable ovulation, everage cycle length, no intercourse, the time lutenizing hormone tests, urine lutenizing hormone positive test, lutenizing normone and follicular stimulating hormone tests, post coital test, sem in analysis, mid-luteal progesterone level, hysterosalpingogram x-ray, endometrial biopsy, Clomi thene, ovarian follicle ultrasound, in tra-uterine insemination, intra-cervical insemination, start progesterone suppositories, expected in xt menstrual period, gestational ultrasound, human chorion in gonadotropin trigger injection, C amid check exam, ultrasound, ultrasound scale, dexamethes ne, hMG injection, Lupron, him an follicular stimulating hormone injection, obstetrics violates the sepuration of the properties of poure, in vitro fertilization, embryo transfer, frozen embryo transfer, progesterone injections, emogen tests with ultrasound, low-dose Lupron, high-dose human follicular stimulating hormone injection, G.I.F.T. laparoscopy, estrogen pill/patch, and thaw embryos.

- 4. (Original) The apparatus of claim 34, wherein the menstruct cycle represented is that of a human.
- 4. (Original) The apparatus of claim 34, wherein the menstruct cycle represented is that of a n a -human animal.
- 4'. (Original) The apparatus of claim 46, wherein the non-human animal is selected from the goup consisting of cattle, horses, pigs, sheep, dogs, rats, mice and monkeys.
- 4 % (Original) The apparatus of claim 46, wherein the non-human animal is a zoo animal.
- 4% (Original) The apparatus of claim 33, wherein the base at d first disc are opaque and the s c and disc is substantially transparent.
- 5 1 (Original) An apparatus comprising a base, the base com or sing at least first and second

displays of first and second markings, respéctively, when circu displace are located either on opposite sides of the base, or next t the this the first circular display of first markings divided into requiangular parts disposed along substantially the entire periphery of the circular display, th into the segments, the first segment having 31 equiangular parts equia: ular parts and being labeled "April" and "September", th equiz ular parts and being labeled "May" and "October", the fc equian ular parts and being labeled "June" and "November", and equia ular parts and being labeled "July" and "December", resi arour the circle; and the second circular display of second mark equientular parts disposed along substantially the entire periphe least 0 equiangular parts grouped into at least five segments, t equiantular parts and being labeled "January", the second segme and thing labeled "February", the third segment having 31 equis "Mai " and "Leap January", the fourth segment having 29 equi ebruary", and the fifth segment having 31 equiangular pa "Lea Marc , or the first segment having 31 equiangular parts and be segment having 29 equiangular parts and being labeled " secoi segn withaving 31 equiangular parts and being labeled "Leap M t having 28 equiangular parts and being labeled "Februar 31 ec angular parts and being labeled "March", respectively, in circl.

the first and second circular ach other on the same side of 53 equiangular parts grouped te second segment having 30 uird segment having 31 h segment having 30 ie fifth segment having 31 tively, in clockwise fashion gs divided into at least 150 of the circular display, the at first segment having 31 having 28 equiangular parts ular parts and being labeled gular parts and being labeled and being labeled "Leap labeled "Leap January", the p February", the third h" and "January", the fourth and the fifth segment having ockwise fashion around the

51. ( ) iginal) The apparatus of claim 50, wherein the base comp when the first circular display is located on the first side of the dispi is located on the second side of the base.

es first and second sides, ase and the second circular

52. ( iginal) The apparatus of claim 50, wherein the second cir divid into 153 equiangular parts grouped into six segments, w

ar display of markings is ein a sixth segment

comprising three equiangular parts is located between the first and fifth segment.

- 53. (Original) The paratus of claim 50, wherein the first segment is labeled tarch" and "August".
- 54. (Original) The apparatus of claim 50, wherein the first segment is labeled 'August" and "January".
- 55. (Original) The ar paratus of claim 50, wherein the first segment is labeled "March", "August" and "January".
- 56. (Original) The apparatus of claim 50, wherein the first segment is labeled "February", "September", and "April."
- 57. (Original) The apparatus of claim 50, wherein the base is substantially planar and opaque.
- 58. (Original) The apparatus of claim 50, further comprising one or more discs rotatably joined at a central axis to a circular display portion of the base, wherein the discs have a circular display of markings disposed along at least a section of the periphery thereof, the markings representing activities or events of interest.
- 59. (Original) The apparatus of claim 58, wherein first and second discs are attached to both the first and the second c reular display portions of the base.
- 60. (Original) The apparatus of claim 58, further comprising an additional disc having at least a circular display of markings disposed along at least a portion of the periphery thereof, the markings being divided into equiangular parts labeled with the days of the week.
- 61. (Original) The upparatus of claim 58, wherein the events of interest are related to a series of

## medical treatments.

62. (Original) The apparatus of 58, wherein the events of interest are related to bank. 2000 law, construction or insurance.

63. (Original) The apparatus of time for fertility tests, treatment apparatus further comprising fir to the circular display on the bas markings disposed along at leas representing the days of a mensi having the same or different len markings disposed along at leas representing events of interest re-

m 50, adapted to determine physiologic phases and optimated protocols based on menstrual or ovulation physiology. It is not second discs adapted to be rotatably joined at a central exist the first disc having at least a circular display of second portion of the periphery thereof, the second markings of cycle, wherein one or more cycles are represented, the exist is; the second disc having at least a circular display of this portion of the periphery thereof, the third markings ing to one or more menstrual cycles.

64. (Original) The apparatus of display of fourth markings dispermarkings being divided into equ

m 63, further comprising a third disc having at least a cir than I along at least a portion of the periphery thereof, the four ingular parts labeled with the days of the week.

65. (Original) The apparatus of securing the first, second and th rotating once they are aligned.

m 64, further comprising a reversible locking means for discs to the base, the locking means preventing the discs

66. (Original) The apparatus of disposed in a circular display, the physiologic phase or fertility tes treatment or protocol having ini m 63, wherein the first disc further comprises fifth mark if the markings representing initial steps in one or more eatment or protocol, the physiologic phase or fertility test and final steps.

67. (Original) The apparatus of

m 66, wherein the second disc further comprises sixth

markings disposed in a circular display, the si physiologic phase, test, treatment or protocol

markings representing the final steps in the m the first disc.

68. (Original) The apparatus of claim 67, whe treatment or protocol on the first and second a treatment and protocol is a different color.

n the initial and final steps of a single phase, test, are the same color, and each phase, test,

69. (Original) The apparatus of claim 63, furt portions of the calculator once a calculation is section cut out, the mask being the same size be rotatably set in coaxial relation with the ba

comprising a mask which covers the unused ade, the mask comprising an opaque disc with a the circular display on the base, and adapted to and first and second discs.

70. (Original) The apparatus of claim 69, whe overlap to create an opening of variable size.

in the mask comprises two sections which

71. (Original) The apparatus of claim 63, furt possibility of pregnancy, the indicator arm co center of the calculator to at least the outer ecrotatably set in coaxial relation therewith, the and a second marker representing the chance the first marker out to a distance of up to six indicated by the first marker; wherein in use this aligned with the appropriate calendar day contact the first marker is aligned with the day or pregnancy is determined by the overlap of the first disc, wherein overlap indicates a possibility of the calculator and the first disc, wherein overlap indicates a possibility of pregnancy is determined by the overlap of the first disc, wherein overlap indicates a possibility of pregnancy is determined by the overlap of the first disc, wherein overlap indicates a possibility of pregnancy is determined by the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, wherein overlap indicates a possibility of the overlap of the first disc, and the first disc, and the first disc, and the first disc, and the

comprising an indicator arm for indicating the rising a transparent arm extending from the of the second disc, the arm adapted to be in having a first marker representing intercourse, sperm, wherein the second marker extends from its, representing up to six days, including the day start of the last menstrual period on the first disc he base, and the indicator arm is positioned such in month of intercourse, and the possibility of cond marker with a chance of egg marker on the of pregnancy.

72. (Original) The apparatus of claim 66, who set, and are exchangeable with other disc sets

in the first and second discs comprise a matched nataining steps for different fertility tests,

treatments, protocols and physiologic phases.

73. (Original) The apparatus of claim 63, wherein is rtility tests, treatments, protocols and physiologic phases are selected from the group conmenstrual period, next menstrual period, follicular; progesterone levels, lutenizing hormone blood leve levels, lutenizing hormone surge, follicular recruitn ovulation, luteogenesis, luteolysis, fertilization of o fertile times, embryo development, zygote, morula, fetus, blood pregnancy test, urine pregnancy test, ea fetal heart motion, limb budding, timed intercourse. body temperature shift, cervical mucus, probable ov start urine lutenizing hormone tests, urine lutenizing and follicular stimulating hormone tests, post coital level, hysterosalpingogram x-ray, endometrial biops intra-uterine insemination, intra-cervical inseminati next menstrual period, gestational ultrasound, huma Clomid check exam, ultrasound, ultrasound scale, d human follicular stimulating hormone injection, obstimulating hormone, estrogen tests, drift days, prio capture, in vitro fertilization, embryo transfer, froze estrogen tests with ultrasound, low-dose Lupron, hihormone injection, G.I. F.T. laparoscopy, estrogen 1

74. (Original) The apparatus of claim 63, wherein the human.

75. (Original) The apparatus of claim 63, wherein the non-human animal.

ng of last menstrual period, current e, luteal phase, estrogen levels, ollicular stimulating hormone blood follicular dominance, follicle growth. e, non-fertile times, fertile times, maybe tocyst, hatching, implantation, embryo, pregnancy ultrasound, embryonic plate, rt basal body temperature chart, basal tion, average cycle length, no intercourse, rmone positive test, lutenizing hormone , semen analysis, mid-luteal progesterone lomiphene, ovarian follicle ultrasound, start progesterone suppositories, expected iorionic gonadotropin trigger injection, methasone, hMG injection, Lupron, ics visit, step-up human follicular cle BCPs, prior cycle Lupron, egg nbryo transfer, progesterone injections, lose human follicular stimulating patch, and thaw embryos.

ienstrual cycle represented is that of a

enstrual cycle represented is that of a

76.(

imal is selected from the

ginal) The apparatus of claim 75, wherein the non-human

grou onsisting of cattle, horses, pigs, sheep, dogs, rats, mice and onkeys. 45 S. S. 3.> 77. ( ginal) The apparatus of claim 75, wherein the non-human imal is a zoo animal. **78.** (0 ginal) The apparatus of claim 63, wherein the base and fir lisc are opaque and the secoi lisc is substantially transparent. **79.** (0 iceled) 80. ( rently amended) The apparatus of claim 79 An apparatus r displaying information to fertility comprising a base and first and second discs, sa relati base and first and second discs atably joined at a central axis; the base having at least a ci lar display of first markings along at least a section of the periphery of the circular dis dispo ay, the first markings divid nto equiangular parts, the equiangular parts labeled with endar days; the first disc t least a circular display of second markings disposed alor havir at least a portion of the y thereof, the second markings representing the days of a perip nstrual cycle, wherein one cycles are represented, the cycles having the same or diffe or mo it lengths; the second disc t least a circular display of third markings disposed along havin least a portion of the y thereof, the third markings representing events of interes perip elating to one or more mens il cycles. wher: the first disc further comprises fourth markings disposed i circular display, the fourth mark s representing initial steps in one or more physiologic pha or fertility test, treatment or the physiologic phase or fertility test, treatment or protoc proto having initial and final steps. 81. (0 inal) The apparatus of claim 80 wherein the second disc f her comprises fifth disposed in a circular display, the fifth markings represes mark: ig the final steps in the

physiologic phase,

the treatment or protocol from the first disc.

performing the lute surge and subseque

82. (Original) The paratus of claim 81 wherein the fourth markings represed by s for ing hormone test, and the fifth markings represent the lute izing hormone tests, treatments and protocols.

83. (Original) The saratus of claim 81 wherein the fourth markings represent e day or days for performing foll of ar ultrasound, and the fifth markings represent various for cle diameters and subsequent tes - reatments and protocols.

84. (Original) The sparatus of claim 81 wherein the initial and final steps of a single phase, test, treatment or protocol on the first and second discs are the same color, and each mase, test, treatment and prote is a different color.

85. (Canceled)

relating to fertility discs rotatably join disposed along at l divided into equiar having at least a ci or more cycles are having at least a ci periphery thereof, 1 menstrual cycles,

86. (Currently ame . d) The apparatus of claim 85; An apparatus for displaying information apprising a base and first and second discs, said base and first and second at a central axis; the base having at least a circular display f first markings ta section of the periphery of the circular display, the first markings lar parts, the equiangular parts labeled with calendar days; he first disc lar display of second markings disposed along at least a perion of the periphery thereof, 1 is second markings representing the days of a menstrual cyc , wherein one resented, the cycles having the same or different lengths: e second disc lar display of third markings disposed along at least a port n of the third markings representing events of interest relating to commore

further comprising : hird disc having at least a circular display of markings dis sed along at

least a portion of the periphery the with the days of the week.

of, the markings being divided into equiangular parts lat 1:d

further comprising a reversible lebase, the locking means preventi

ing means for securing the first, second and third discs to the the discs from rotating once they are aligned.

## 87. (Canceled)

88. (Currently amended) The apprehating to fertility comprising a discs rotatably joined at a central disposed along at least a section divided into equiangular parts, the having at least a circular display periphery thereof, the second masor more cycles are represented, the having at least a circular display periphery thereof, the third mark menstrual cycles.

tus of claim 87. An apparatus for displaying information

and first and second discs, said base and first and second

is; the base having at least a circular display of first mark in is

he periphery of the circular display, the first markings

quiangular parts labeled with calendar days: the first disc

second markings disposed along at least a portion of the

igs representing the days of a menstrual cycle, wherein o expected having the same or different lengths; the second displaying the same or displa

wherein the first markings are di markings divided into 365 equia: calendar year,

sed along the entire periphery of the circular display, the irst lar parts, the equiangular parts labeled with days of the fi

further comprising a second circular periphery of the circular display, equiangular parts labeled with de

display of sixth markings disposed along the entire sixth markings divided into 366 equiangular parts, the of the leap year.

89. (Original) The apparatus of c

1 88, wherein the base comprises first and second sides,

wherein the first circular display is located on he first side of the base and the second circular display is located on the second side of the base.

90. (Currently amended) The apparatus of claim \$5. An apparatus for displaying information relating to fertility comprising a base and first and second discs, said base and first and second discs rotatably joined at a central axis; the base of a ving at least a circular display of first markings disposed along at least a section of the periphenty of the circular display, the first markings divided into equiangular parts, the equiangular parts labeled with calendar days; the first disc having at least a circular display of second markings disposed along at least a portion of the periphery thereof, the second markings representing the days of a menstrual cycle, wherein one or more cycles are represented, the cycles having the same or different lengths; the second disc having at least a circular display of third markings disposed along at least a portion of the periphery thereof, the third markings represent in sevents of interest relating to one or more menstrual cycles.

further comprising a third disc having at least a circular display of markings disposed along at least a portion of the periphery thereof, the markings being divided into equiangular parts labeled with the days of the week.

further comprising a mask which covers the unused portions of the calculator once a calculation is made, the mask comprising an opaque disc with a section cut out, the mask being the same size as the circular display on the base, and adapted to be rotatably set in coaxial relation with the base and first and second discs.

- 91. (Original) The apparatus of claim 90, whe eighthe mask comprises two sections which overlap to create an opening of variable size.
- 92. (Original) The apparatus of claim 81, further comprising an indicator arm for indicating the possibility of pregnancy, the indicator arm corup rising a transparent arm extending from the

center of the calculator to at least the outer edge of the second disc, the arm adapted to be rotatably set in coaxial relation therewith, the arm is ing a first marker representing intercourse, and a second marker representing the chance of specific the second marker extends from the first marker out to a distance of up to six units, resenting up to six days, including the day indicated by the first marker; wherein in use the stant of the last menstrual period on the first disc is aligned with the appropriate calendar day on the mile, and the indicator arm is positioned such that the first marker is aligned with the day of the  $r \approx i$ th of intercourse, and the possibility of pregnancy is determined by the overlap of the seconomarker with a chance of egg marker on the first disc, wherein overlap indicates a possibility of p egnancy.

93. (Original) The apparatus of claim 81, wherein the first and second discs comprise a matched set, and are exchangeable with other disc sets containing steps for different fertility tests, treatments, protocols and physiologic phases.

94. (Currently amended) The apparatus of claim 7 ; An apparatus for displaying information relating to fertility comprising a base and first and e ond discs, said base and first and second discs rotatably joined at a central axis; the base havir ; at least a circular display of first markings disposed along at least a section of the periphery of tecircular display, the first markings divided into equiangular parts, the equiangular parts beled with calendar days; the first disc having at least a circular display of second marking s isposed along at least a portion of the periphery thereof, the second markings representin gove days of a menstrual cycle, wherein one or more cycles are represented, the cycles having tle ame or different lengths; the second disc having at least a circular display of third markings it bosed along at least a portion of the periphery thereof, the third markings representing vy ats of interest relating to one or more menstrual cycles.

wherein the fertility tests, treatments, protocols and y ysiologic phases are selected from the group consisting of last menstrual period, current n e strual period, next menstrual period, follicular phase, luteal phase, estrogen levels, proges rone levels, lutenizing hormone blood

levels, follicular stimulating hormone blood levels, large hormone surge, follicular recruitment, follicular dominance, follicle growth, ov of oocyte, non-fertile times, fertile times, mayoe fer ines, emoryo development, zygote, morula, blastocyst, hatching, implantation, embryo, test, early pregnancy ultrasound, embryonic plate, fer intercourse, start basal body temperature chart, basal probable ovulation, average cycle length, no intercol urine lutenizing hormone positive test, lutenizing hor tests, post coital test, semen analysis, mid-luteal pros endometrial biopsy, Clomiphene, ovarian follicle ult intra-cervical insemination, start progesterone suppo gestational ultrasound, human chorionic gonadotropi ultrasound, ultrasound scale, dexamethasone, hMG i stimulating hormone injection, obstetrics visit, step-1 estrogen tests, drift days, prior cycle BCPs, prior cyc embryo transfer, frozen embryo transfer, progesteron low-dose Lupron, high-dose human follicular stimul: laparoscopy, estrogen pill/patch, and thaw embryos.

95. (Original) The apparatus of claim 81, wherein the human.

96. (Original) The apparatus of claim 81, wherein the non-human animal.

97. (Original) The apparatus of claim 96, wherein the group consisting of cattle, horses, pigs, sheep, dogs,

98. (Original) The apparatus of claim 96, wherein the tim-human animal is a zoo animal.

an on, luteogenesis, luteolysis, fertilization us blood pregnancy test, urine pregnancy mart motion, limb budding, timed temperature shift, cervical mucus, tart urine lutenizing hormone tests, in e and follicular stimulating hormone one level, hysterosalpingogram x-ray. and, intra-uterine insemination, es, expected next menstrual period, ger injection, Clomid check exam, on, Lupron, human follicular man follicular stimulating hormone, pron, egg capture, in vitro fertilization. in ections, estrogen tests with ultrasound. hormone injection, G.I.F.T.

nenstrual cycle represented is that of a

denstrual cycle represented is that of a

bi-human animal is selected from the mice and monkeys.

inal) An apparatus adapted to determine optimum time for whieving or avoiding A based on menstrual or ovulation physiology and a caler is of moon phases, wherein the callator contains only non-letter, non-number symbols, the callator comprising a pase comprare g a circular display divided into equiangular parts, each quangular part representing a ch moon phase of a full year, the display divided into one or more groups of 29 equian ar parts representing the 29 days of a moon phase; a first 4 c having the circumference thereo. ivided into equiangular parts, wherein a symbol represent no a significant day which egular intervals during the moon phase is located in the units at the regular intervals, occurs hise being smaller than the circular display on the base, at 1 dapted to be rotatably set in the fire elation therewith so that the outside edge of the first disc e inside the units on the coaxia I such that the symbols representing the significant days a enlighed with the appropriate ase on the base; a second disc divided into equiangular pate with an annular display of cua disposed along substantially the entire periphery there f, the first indicia representing of a menstrual cycle; wherein one or more cycles are represented, the cycles having the same a different lengths, the second disc being smaller than the first disc and adapted to be set in coaxial relation therewith so that the outside edge of the second disc lies inside rotatal ols on the first disc; a third disc divided into equiangular at ts with an annular display i and third indicia disposed along substantially the entire exphery thereof, the second indicia presenting the days of a menstrual cycle and the third incorpresenting a fertile third disc being smaller than the first disc, and adapted to be rotatably set in coaxial period with the base, first and second discs so that the outside ed e of the third disc lies inside relatio the svi ols on the first disc; wherein in use the symbol representing a significant day on the first i used with the appropriate moon phase on the base, and the first disc is affixed to the disc is base, t ast menstrual cycle on the second disc is then aligned we have he corresponding day on d sc and base, according to the significant days; the next r e strual cycle on the third the fire en aligned with the corresponding day on the first disc, according to the significant days, disc is be third indicia representing a fertile period on the third case to be aligned with their causin ding day read from the base and first disc.

- 100. (Original) The superatus of claim 99, further comprising a mask which covers the unused portions of the calculator once a calculation is made, the mask comprising an operatus disc with a section cut out, the passes being the same size as the circular display on the base, and disc with a be rotatably set in cookial relation with the base and first and second discs.
- 101. (Original) The Exparatus of claim 100, wherein the mask comprises two sec in which overlap to create an expening of variable size.
- 102. (Original) The apparatus of claim 99, wherein the significant days are religious and are represented by religious symbols.
- 103. (Original) The apparatus of claim 99, wherein the first and second indicia a produce symbols with a large and on the first day of the menstrual period, and a tapered end on the last day of the menstrual period.
- 104. (Original) The Exparatus of claim 103, wherein the wedge-shaped symbols are colored red.
- 105. (Original) The apparatus of claim 99, wherein the third indicia are baby-shape ymbols, and range from faintly printed through darkly printed and back to faintly printed ding to the chance of conception wherein the darker the symbol the greater chance of conception.
- 106. (Original) The  $\varepsilon$  peratus of claim 99, wherein the base further comprises synthesis representing specific limes of the year.
- 107. (Original) The apparatus of claim 106, wherein the specific times of the year include planting, harvesting, easons and religious or tribal ceremonies.
- 108. (Original) The a paratus of claim 99, wherein the base and first and second list are opaque and the third disc is a abstantially transparent.

109. (Original) The apparatus of c 11m 99, further comprising a reversible locking means for securing the first, second and third discs to the base, the locking means preventing the discs fr 101 rotating once they are aligned.

## 110. (Canceled)

displaying information relating to entility using a calculator, the calculator comprising a base of first and second discs, said base at 1 first and second discs, said base at 1 first and second discs rotatably joined at a central axis; the base having at least a circular display. It is first markings disposed along at least a section of the periphery of the circular display, it is first markings divided into equiangular parts, the equiangular parts labeled with calcular days; the first disc having at least a circular display of 1 least second markings disposed along at least a portion of the periphery thereof, the second markings representing the days of the cycles having the same or different lengths; the second disc having at least a circular display of at least third markings disposed along at least a portion of the periphery thereof, the third markings representing events of in exest relating to one or more menstrual cycles; the method comprising rotating the first disc is that the second markings representing the days of a menstrual cycle are aligned with the appropriate calendar day on the base; rotating the second disc such that at least one of the third markings are aligned with the appropriate menstrual cycle day; and reading the calendar days associated with additional events of interest.

wherein the events of interest are  $\epsilon$  tents relating to the lutenizing hormone (LH) surge, whereis the first disc addition has fourth more reings representing menstrual cycle days for performing the lutenizing hormone test, the third markings on the second disc representing lutenizing hormone surge and subsequent tests, treatments and protocols; the method comprising rotating the first disc such that the second markings representing the days of a menstrual cycle are aligned with appropriate calendar day on the base rotating the second disc such that the marking representing the lutenizing hormone surge is alist ed with the appropriate lutenizing hormone test day, and

reading the calendar days associated with the storequent tests, treatments and protocols.

112. (Currently amended) The method of claim 110, A method for calculating dates and first and second discs, said base and first and see and discs rotatably joined at a central axis; the base having at least a circular display of first m kings disposed along at least a section of the periphery of the circular display, the first marki and divided into equiangular parts, the least second markings disposed along at least a ortion of the periphery thereof, the second of at least third markings disposed along at leas a portion of the periphery thereof, the third markings representing events of interest relatin one or more menstrual cycles: the method comprising rotating the first disc such that the sound markings representing the days of a menstrual cycle are aligned with the appropriate ellendar day on the base; rotating the second disc such that at least one of the third markings ealigned with the appropriate menstrual cycle day; and reading the calendar days associated we the additional events of interest.

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displaying information relating to fertility using calculator, the calculator comprising a base and equiangular parts labeled with calendar days; the tirst disc having at least a circular display of at markings representing the days of a menstrual code, wherein one or more cycles are represented, the cycles having the same or different lengths; he second disc having at least a circular display

wherein the events of interest are based on folli e size, wherein the first disc addition has fourth markings representing menstrual cycle days for performing follicular ultrasound, the third markings on the second disc representing vario sollicle sizes and subsequent tests, treatments and protocols; the method comprising rotating in first disc such that the second markings representing the days of a menstrual cycle are a gred with the appropriate calendar day on the base, rotating the second disc such that the mar arg representing the appropriate measured follicle size is aligned with the appropriate mer rual cycle day, and reading the calendar days associated with the subsequent tests, treatments and protocols.

113. (Original) A method for calculating dates and displaying information relating to fertility

using a calculator, the calculator comprising a base and first and second discs, the base comprising at least first and second circular display of first and second markings, respectively, wherein the first and second discs are adapted to the first and second circular displays; the first circular display of first markings divided into 153 equiangular parts disposed along substantially the entire periphery of the circular display, the 153 equiangular parts grouped into five segments, the 1 ct segment having 31 equiangular parts, the second segment having 30 equiangular parts and b ing labeled "April" and "September", the third segment having 31 equiangular parts and beir a labeled "May" and "October", the fourth segment having 30 equiangular parts and being labiled "June" and "November", and the fifth segment having 31 equiangular parts and being labiled "July" and "December", respectively, in clockwise fashion around the circle; and the second circular display of second markings divided into at least 150 equiangular parts disposed along substantially the entire periphery of the circular display, the at equiangular parts grouped into at least five segments, the first segment having 31 equiangular parts and being labeled "January", the second segment having 28 equiangular parts and being labeled "February", the third segment having 31 equiangular parts and being labeled "March" and "Leap January", the fourth segment I wing 29 equiangular parts and being labeled "Leap February", and the fifth segment having 31 quiangular parts and being labeled "Leap March", or the first segment having 31 equiangula parts and being labeled "Leap January", the second segment having 29 equiangular parts and b ing labeled "Leap February", the third segment having 31 equiangular parts and being lat sted "Leap March" and "January", the fourth segment having 28 equiangular parts and being lat ited "February", and the fifth segment having 31 equiangular parts and being labeled "March", respectively, in clockwise fashion around the circle; the first disc having at least a circular displate of third markings disposed along at least a portion of the periphery thereof, the third marking: representing the days of a menstrual cycle, wherein one or more cycles are represented, the cy les having the same or different lengths; the second disc having at least a circular display of for the markings disposed along at least a portion of the periphery thereof, the fourth markings repre enting events of interest relating to one or more menstrual cycles; the method comprising rot ting the first disc to align the days of a menstrual cycle with the appropriate calendar days on the first or second circular display; rotating

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the second disc to align the events of interest with the appropriate menstrual cycle day on the first disc; determining the calendar dates of additional events of interest relating to additional menstrual cycles based on the associated calendar day the first or second circular display.

114. (Original) A method for timing the fertile period usi ig a calculator adapted to determine optimum time for achieving or avoiding pregnancy based on menstrual or ovulation physiology and a calendar of moon phases, wherein the calculator costains only non-letter, non-number symbols, the calculator comprising a base comprising a corcular display divided into 365 equiangular parts, each unit representing a day in each ration phase of a full year, a first disc having the circumference thereof divided into 365 equian sular parts, wherein a symbol representing a significant day which occurs in cycles is to lated in the units at intervals according to the cycle, the first disc being smaller than the circular cisplay on the base, and adapted to be rotatably set in coaxial relation therewith so that the outside edge of the first disc lies inside the units on the base; a second disc divided into 365 equiar g lar parts with an annular display of first indicia disposed along substantially the entire periphery thereof, the first indicia representing the days of a menstrual cycle; wherein one or more cycles ere represented, the cycles having the same or different lengths, the second disc being smaller than the first disc and adapted to be rotatably set in coaxial relation therewith so that the outside edge of the second disc lies inside the symbols on the first disc; a third disc divided into 365 equiangular parts with an annular display of second and third indicia disposed along substartially the entire periphery thereof, the second indicia representing the days of a menstrual cycle and the third indicia representing a fertile period, the third disc being smaller than the first die, and adapted to be rotatably set in coaxial relation with the base, first and second discs so that the outside edge of the third disc lies inside the symbols on the first disc; the method comprising rotating the first disc such that the symbol representing a significant day on the first disc is a gned with the appropriate moon phase on the base, affixing the first disc to the base to set the calendar, rotating the second disc such that the last menstrual cycle on the second disc is aligned with the corresponding day on the first disc and base, according to the significant days, rotating the third disc such that the next menstrual cycle on the third disc is aligned with the corresponding day on the first disc,

according to the significant days, determining the days from the base ard first disc which correspond to the third indicia on the third disc representing a fertile period.

115-12 (canceled).